

January 10, 2001

Surface Observation BUFR message format

Our goal is a flexible format that will encompass vertical upper air profiles regardless of the type of instrumentation used to measure them, enabling future data processing systems to operate with a minimum of software development.

Also, in order to avoid time delays encountered due to data organization, we propose a single station's measurements for a single time period in each individual message. Our single most heard complaint about current data delivery is that it isn't as timely as could be, especially for use in NWP.

Proposed BUFR definition for surface observations:

[illegible]

Legend: MBM = May Be Missing, if station not permanent

Note 1: I believe this number should be negative to denote the fact we were averaging over the PREVIOUS n seconds.